

Title (en)

Controlling a GPS receiver by detecting motion based on radiofrequency signal traces

Title (de)

Steuerung eines GPS-Empfängers durch Detektion von Bewegung auf Hochfrequenzsignalspur

Title (fr)

Contrôle d'un récepteur de GPS en détectant le mouvement d'après des traces de signaux en radiofréquence

Publication

**EP 2275830 B1 20130424 (EN)**

Application

**EP 10152464 A 20100203**

Priority

US 22134809 P 20090629

Abstract (en)

[origin: EP2275830A1] Operation of a GPS receiver on a wireless communications device is controlled by determining whether the device is stationary or in motion. Motion determination is accomplished by analyzing radiofrequency signal traces, e.g. GSM signal traces, received from one or more nearby base stations. A three-tiered analysis provides a progressively more accurate determination as to whether the device is moving or stationary while providing, in certain instances, a more rapid determination than prior-art techniques. When the device is determined to be stationary, the GPS receiver can be deactivated. When the device is determined to be moving, the GPS receiver can be reactivated.

IPC 8 full level

**G01S 19/34** (2010.01); **G01S 5/02** (2010.01); **G01S 19/48** (2010.01)

CPC (source: EP US)

**G01S 19/34** (2013.01 - EP US); **G01S 19/48** (2013.01 - EP US)

Cited by

CN106465059A; EP3872524A1; US8805402B2; WO2015171259A1; WO2013133965A1; US9301096B2; US10932087B2; WO2020036756A1; JP2015511010A

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**EP 2275830 A1 20110119; EP 2275830 B1 20130424**; CA 2708386 A1 20101229; CA 2708386 C 20151013; US 2010328154 A1 20101230; US 2012223861 A1 20120906; US 8193982 B2 20120605; US 8482461 B2 20130709

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